

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT

LOCATION.--Lat 38°40'26", long 109°26'58", in SE^{1/4}SW^{1/4}NE^{1/4} sec. 35, T. 24 S., R. 22 E., Grand County, Hydrologic Unit 14030005, on left bank and 16.5 mi northwest of Moab.

DRAINAGE AREA.--58.1 mi².

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversions for irrigation above and below the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 296 ft³/s, Jul 28, 1998, gage height, 7.43 ft; minimum daily discharge, 3.1 ft³/s, Jun 5, 2000.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 10	1800	*10	*5.61				

Minimum daily discharge, 3.3 ft³/s, Aug 2, 3.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.0	5.1	6.3	6.3	6.5	6.2	4.6	4.2	4.5	3.9	3.5	3.9
2	e6.0	5.3	6.2	6.3	7.2	6.2	4.5	3.9	4.8	3.9	3.3	3.9
3	e5.4	5.0	6.2	6.2	6.8	6.3	4.3	3.9	4.6	3.9	3.3	3.9
4	e5.1	5.0	6.2	6.3	6.7	6.5	4.0	4.3	4.8	3.8	3.4	3.9
5	e5.0	4.7	6.2	6.3	6.6	6.4	4.0	4.0	4.4	3.8	3.5	4.0
6	e4.9	5.4	6.2	6.3	6.7	6.1	4.1	4.1	4.5	3.8	3.4	4.1
7	e4.9	5.5	6.3	6.3	6.6	6.1	4.1	3.9	4.4	3.8	3.5	4.2
8	4.9	5.5	6.3	6.3	6.6	6.1	3.9	4.0	4.1	3.9	3.5	4.1
9	4.6	5.8	6.3	6.3	6.7	6.0	3.9	4.0	4.2	4.1	3.4	4.3
10	4.6	5.8	6.3	6.3	6.9	6.0	3.9	4.0	4.2	4.1	3.4	4.4
11	4.1	5.9	6.4	6.4	6.8	6.1	3.9	4.0	4.1	3.9	3.4	4.4
12	4.1	6.0	6.4	6.4	6.7	6.0	3.9	4.2	4.2	3.8	3.6	4.3
13	4.5	6.1	6.4	6.4	6.8	6.0	3.9	4.1	4.2	3.7	3.7	4.2
14	4.3	6.0	6.4	6.4	6.5	5.9	3.9	3.9	4.3	3.8	3.5	4.5
15	4.3	6.0	6.3	6.3	6.4	5.2	4.0	4.9	4.2	3.7	3.5	4.3
16	4.2	6.0	6.3	6.4	6.4	4.2	4.0	4.1	4.1	3.7	3.8	4.2
17	4.5	6.1	6.3	6.4	6.4	4.6	4.0	4.1	4.1	3.8	3.9	4.1
18	4.4	6.0	6.3	6.4	6.4	4.4	4.2	4.2	4.2	3.7	3.7	4.3
19	4.3	5.8	6.3	6.5	6.2	3.8	4.1	4.4	4.3	3.6	3.9	4.5
20	4.1	5.4	6.2	6.5	6.3	3.8	4.2	4.3	4.4	3.7	4.0	4.6
21	3.9	5.3	6.3	6.4	6.3	4.0	4.1	4.2	4.3	3.7	3.8	4.5
22	4.0	5.4	6.3	6.4	6.2	3.7	4.2	4.1	4.2	3.7	3.6	4.4
23	4.0	5.4	6.3	6.4	6.3	3.8	4.3	4.1	4.1	3.7	3.9	4.4
24	4.4	5.3	6.2	6.4	6.2	4.1	4.3	4.2	4.2	3.7	3.8	4.4
25	4.4	5.3	6.2	6.4	6.4	4.3	4.1	4.3	4.1	3.7	3.8	4.5
26	4.8	5.2	6.2	6.4	6.7	4.1	4.0	4.3	3.7	3.7	3.9	4.4
27	4.6	5.4	6.1	6.5	6.5	4.1	4.0	4.1	3.9	3.7	3.9	4.4
28	4.7	6.0	6.1	6.5	6.5	4.1	3.9	4.2	3.9	3.8	3.8	4.4
29	4.8	6.5	6.2	6.5	---	4.1	3.9	4.3	3.9	3.7	3.8	4.4
30	4.9	6.4	6.2	6.5	---	4.1	3.9	4.3	3.8	3.8	3.9	4.3
31	5.2	---	6.4	6.5	---	4.6	---	4.6	---	3.7	3.8	---
TOTAL	142.9	168.6	194.3	197.9	183.3	156.9	122.1	129.2	126.7	117.3	113.2	128.2
MEAN	4.61	5.62	6.27	6.38	6.55	5.06	4.07	4.17	4.22	3.78	3.65	4.27
MAX	6.0	6.5	6.4	6.5	7.2	6.5	4.6	4.9	4.8	4.1	4.0	4.6
MIN	3.9	4.7	6.1	6.2	6.2	3.7	3.9	3.9	3.7	3.6	3.3	3.9
AC-FT	283	334	385	393	364	311	242	256	251	233	225	254

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	6.21	7.45	7.22	7.08	6.99	7.00	6.11	6.19	6.41	5.12	4.67	5.28
MAX	8.33	8.95	8.36	8.53	8.37	8.77	8.43	17.2	15.4	9.85	6.72	7.50
(WY)	(1998)	(1998)	(1996)	(1993)	(1998)	(1998)	(1993)	(1993)	(1993)	(1995)	(1997)	(1997)
MIN	4.09	5.62	6.27	5.64	6.19	5.06	4.07	3.93	3.48	3.31	3.45	3.62
(WY)	(2001)	(2003)	(2003)	(1999)	(2000)	(2003)	(2003)	(2000)	(2000)	(1994)	(2002)	(2000)

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1992 - 2003
ANNUAL TOTAL	1,888.9	1,780.6	
ANNUAL MEAN	5.18	4.88	
HIGHEST ANNUAL MEAN			6.30
LOWEST ANNUAL MEAN			8.84
HIGHEST DAILY MEAN	7.2	Mar 18	4.88
LOWEST DAILY MEAN	3.2	Aug 8	1993
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 4	2003
ANNUAL RUNOFF (AC-FT)	3,750	3,530	34 May 27, 1993
10 PERCENT EXCEEDS	6.8	6.4	8.4 Jun 5, 2000
50 PERCENT EXCEEDS	5.0	4.4	6.3 Jul 7, 1994
90 PERCENT EXCEEDS	3.5	3.8	3.2
			3.8

e Estimated

